

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for controlled reservoir opening comprising:
providing a biocompatible implantable device which comprises:
at least one substrate which comprises a glass, a ceramic, silicon, a semiconductor, a polymer, or a combination thereof,
a plurality of reservoirs in the substrate,
a plurality of discrete reservoir caps, each of which covers one of the reservoirs, and
molecules sealed inside the reservoirs; and
selectively heating each reservoir cap in an amount effective to cause said reservoir cap to undergo a phase change and rupture the reservoir cap, thereby opening and open the reservoir.
2. (Original) The method of claim 1, wherein the reservoir cap comprises a metal film.
3. (Canceled).
4. (Original) The method of claim 1, wherein the molecules are drug molecules.
5. (Original) The method of claim 1, wherein the molecules are distributed in a matrix formed of a degradable material.

6. (Currently Amended) A method for controlled reservoir opening of a device *in vivo* comprising:

implanting into a patient a biocompatible device which comprises:

at least one substrate,

a plurality of reservoirs in the substrate,

a plurality of discrete reservoir caps, each of which comprises a metal film

and covers one of the reservoirs, and

molecules sealed inside the reservoirs; and

selectively heating each reservoir cap in an amount effective to rupture the reservoir cap and open the reservoir.

7. (Canceled).

8. (Original) The method of claim 6, wherein the heating of the reservoir cap causes it to expand until it cracks or ruptures due to thermal expansion.

9. (Original) The method of claim 6, wherein the molecules are drug molecules.

10. (Currently Amended) The method of ~~claim 1~~ claim 6, wherein the molecules are distributed in a matrix formed of a degradable material.

11. (New) The method of claim 1, wherein the biocompatible implantable device further comprises a microprocessor, a power source, and an input source, which cooperate to control the heating of the reservoir cap.

12. (New) The method of claim 11, wherein the input source comprises a memory source, a signal receiver, or a biosensor.
13. (New) The method of claim 12, wherein the biosensor is integrated into the device and capable of detecting molecules in a fluid surrounding the device.
14. (New) The method of claim 1, wherein the molecules in the closed reservoir are in a solid form.
15. (New) The method of claim 4, wherein the drug molecules are released from the device in a pulsatile manner.
16. (New) The method of claim 6, wherein the step of selectively heating the reservoir cap causes the reservoir cap to undergo a phase change and rupture, thereby opening the reservoir.
17. (New) The method of claim 16, wherein the phase change comprises melting.
18. (New) The method of claim 6, wherein the step of selectively heating the reservoir cap causes the reservoir cap to chemically degrade and rupture, thereby opening the reservoir.
19. (New) The method of claim 1, wherein the reservoir caps comprise gold or platinum.
20. (New) The method of claim 6, wherein the reservoirs caps comprise gold or platinum.

21. (New) The method of claim 1, wherein the step of heating the reservoir cap comprises use of a thin film resistor.

22. (New) The method of claim 6, wherein the step of selectively heating the reservoir cap comprise use of a thin film resistor.